

C6

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```



```

        unsigned long          total_badfiles;
        unsigned long          curt_kbytessofar;
        unsigned long          curt_time_slice;
        unsigned long          curt_files;
        unsigned long          total_kb_expected;
        int                  operation_type;
        int                  compiled;
        unsigned long          status;
        struct WIPProgress    *next;

        struct WIPProgress {
            /* SUMMARY structure */
            struct EDMProgress {
                time_started;
                current_time;
                total_kbytessofar;
                total_files;
                total_badfiles;
                current_time_slice;
                current_kbytessofar;
                current_files;
                active;
                total;
                failed;
                successful;
                unsigned long          total_files_expected;
                int                  operation_type;
                completed;
                unsigned long          status;
                struct EDMProgress    *next;
            };
            char                host_name[HOSTNAME_SIZE];
        } host;
    };

    struct EDMState {
        status;
        edm;
        unsigned long          EMDProgress;
        WIPProgress;
        *WIPProgress;
    };
};

struct CC_Notify .ccos_restore(dispatch_daemon,x,3

```

+ STONEHENGE TRIANGLES.

* This function takes care of all the initialization for a recovery session. This must be called prior to any of the other functions

```
/* trouble. */
```

* Parameters:

- hostname**
 - (1) - The machine name of the server to use as this user's client
- serial**
 - (0) - A handle to receive a pointer to this user's client handle for the Restore Engine connection.
- timeout**
 - (1) - The maximum number of seconds to wait for the connection to the Restore Engine process to be completed.

```
handlerptr = (internalHandle *) callc1(sizeof(internalHandle));  
/* Use this macro to setup the interface spec */  
CLIENTSPECIFIC(spec);
```

```
errno_ty eerrno_ty  
eerrno_ty::Initialize( hostname_ty hostname,  
                      serverHandle *svrHdl,  
                      unsigned long timeout )  
  
    eerrno_ty apiStatus = E_SUCCESS;  
  
    uid_t human_uid;  
    struct  
    passwd *pw;
```

/* a valid host parameter, this will fail and drop through and
 * return NULL in the end.
 */
/* this call will get and store a fully resolved binding
 * handle to the host. The first time we ever call this host,
 * csc_get_handle will resolve and store this binding. If we
 * ever use csc_get_handle to talk to the same host again,
 * it will just give back the previously resolved binding.

```
if (initres == NULL)
```

RE_VERSNUM,
kre_if_sdec
fatavia).

```
stargs.service_handle = initress->service_handler;  
Statargs.status = 0;
```

```
status = dd_getservicestatus_1( &statargs, handlePtr->dd_binding_handle );
```

```
    if (statres == NULL)
    {
        return EP_RB_RECOVER_RPC_FAIL;
```

```
time_t now;                                // current time

rec_api_log_csm(SUB_CSM_RPC_FAIL,...);      // write message to log
```

```

        xdr_free(xdr, DD_GETSERVICESTATUS_RESULT, (char *)status);
        time(&now);
    }
}

return E_P_RL_RECOVER_SERVERFAIL;
}

```

```

if (now >= end_time)
{
    refans = 100;
    sub_csm = REF_CSM;
    ref_csm = REF_CSM;
    ref_fatt = FATT;
}

```

bindable → re-binding handle, & handleType → re-binding handle, & detachable; (see also [bindable](#))

```

status = dd.getservicestatus(1, *statargs,
                           **statkwargs)
while (api.status != R.SUCCESS):
    if api.status == R.SUCCESS:
        break
    else:
        print("Status: %s" % api.status)

```

```

if (status == NULL)
    nameattr->out_dirname = NULL;
else
    if (api_status == E_SUCCESS)
        {
            if (api_status == E_SUCCESS)
                {
                    if (api_status == E_SUCCESS)
                        {
                            if (api_status == E_SUCCESS)
                                {
                                    if (api_status == E_SUCCESS)
                                        {
                                            if (api_status == E_SUCCESS)
                                                {
                                                    if (api_status == E_SUCCESS)
                                                        {
                                                            if (api_status == E_SUCCESS)
                                                                {
                                                                    if (api_status == E_SUCCESS)
                                                                    }
                                                                }
                                                            }
                                                        }
                                                    }
                                                }
                                            }
                                        }
                                    }
                                }
                            }
                        }
                    }
                }
            }
        }
    }
}

```

```
{  
    "sec-app": "jol.com", "sec-csa": "mc-pm", "while_starting_restore_engine": "  
        # fatal DEBUG  
        re-handle hardware_error > re-binding_handles;  
    }  
}
```

```
char *kRPC_timeout; }
```

```
rec-apis.log.csm1 SUB-CM1-RNC-FAILED :  
    -endmcs failure while starting restore engine  
    );  
  
set-obj re-initialize, init & RECONFID ;  
set-obj re-initialize, init & RECONFID ;  
re-init-result = re-initialize(1, &RECONFID, re-handle);
```

*Failure communicating with restore engine ;;

```
    sizeof( handlerp ) -> opaque18 );
```

```
***** END OF Dispatch.Dreamon STUFF *****/
char *re_init_result();
```

```
    zretval = csc_private_ifspec_inited( char ** ) handleptr -> engineHandle;
```

Failure connecting to restore engine)

```
    *svrhdl = (serverHandle)re->handle;
    return( api_Status );
}
/* End of EDMRST_Initialize() */
```

Parameters:
 svrhdl (T) - A pointer to this user's client handle for the engine alive and running so that the engine will not time out.

```
extern void EDMRST_Ping( serverHandle svrhdl;
```

{
 errno_t api_Status = E_SUCCESS;
 RE_ARGS re_ping_args;
 RE_STATUS re_status_result;
 RE_ARGS *re_ping_result = NULL;
 }
}

```
    if ( NULL == svrhdl || NULL == handlePtr
        || svrhdl != handlePtr->re_binding_handle )
    {
        return( ER_RB_RECOVER_BAD_ARGS );
    }
}
```

set_RPC_obj(re_ping, &ePing_args.RPCobjID);
 re_ping_result = re_ping_l1(&ePing_args, svrhdl);
 if (NULL == re_ping_result)
 {
 api_Status = EP_RB_RECOVER_RPC_FAIL;
 re_RPC_LOG(com(SUB_CIM_RPC_FAIL, NULL),
);
 }
 else
 {
 api_Status = re_ping_result->status;
 /* Release RPC result struct: */
 xdR_Free(xdr_BB_Status_result, (char *)re_ping_result);
 }
}

 * EDMRST_Finish
 * *****

Function Description:

This function terminates a restore session, but only during the browse and mark phase. It will be rejected if a restore is currently being executed. This routine will clean up any local memory used in the session and will disconnect from the Restore Engine. After calling this function, the EDMRST_INITIALIZE MUST be called before calling any other functions in this API.

Parameters:
 svrhdl (T) - A pointer to this user's client handle for the engine alive and running so that the engine will not time out.

Return Codes:
 ER_RB_RECOVER_BAD_ARGS
 ER_RB_RECOVER_RPC_FAIL
 ER_RB_RECOVER_INVALID
 ER_RB_RECOVER_SERVERFAIL

```
errno_t
EDMEST_Finish( serverHandle svrHdl )
{
    errno_t          api_Status = E_SUCCESS;
    RE_RPC_ARGS      re_finish_args;
    RE_STATUS_RESULT re_finish_result = NULL;
    int              cac_Status;
    int              handlePtr;
    SVR_hdl          svrHdl ! handlePtr->re_binding_handle
}

return( EP_RB_RECOVER_BAD_ARGS );
}

```

```
    set_rpc_obj( re_finish, &re_finish_args.RPCObjID );
    re_finish_result = re_finish( &re_finish_args, svrHdl );

```

```
    if (!re_finish_result) {
        api_Status = EP_RB_RECOVER_RPC_FAIL;
        rec_api_log_csm( SUB_CSM_RPC_FAIL, NULL );
    }
}

```

```
else {
    api_Status = re_finish_result->status;
    /* release RPC result struct; */ re_release_RPC_result_struct( &re_finish_result );
    xdr_free( xdr_NE_Status_result, (char *)re_finish_result );
}

```

```
rec_api_log_end();
/* write last log and close the log file. */
}

/* EDMEST_Finish */

```



```

/*
 * EMDIpatchService.c
 */

/* Mission Statement: RIC entry points.
 * Primary Data Acted On:
 * Compile-Time Options:
 * Basic idea here:
 */

/* If !defined(LINT)
 static char RCS_Id [] = " $Revision: 1.0 $ "
 * $Date: 1997/02/06 20:49:15 $ "
#endif

#include <esl/portable.h>
#include <logging/logging.h>
#include <csc/cacm.h>
#include <restore/cac.EMDpatch.h>
#include <restore/dispatch_daemon.h>
#include <EMDpatchLog.h>

#include <EMDpatchSession.h>

/*
 * These are all the RIC entry points for the dispatch daemon.
 * The dispatch daemon is multi-threaded and it is the main thread
 * which handles all incoming RIC. One RIC is single threaded
 * so each call blocks other RIC calls. This provides us some
 * safety in the way we handle our data and limits our exposure
 * to unexpected multithreading problems.
 */
static void PreSessionInfo(SessionInfo * );
/*************************************************************/
/* Routine: dd_initialize_l
 * Inputs: DD_initialize_args * - args for the restore initialize call
 * Outputs: None
 * Return Codes: DD_initialize_result * - result of init function call
 * Purpose: Function to create a restore session.
 */
***** Intended caller: Internal Only.
***** Intended caller: Internal Only.

DD_initialize_result * dd_initialize_l(DD_initialize_args *arg, IN struct svc_req *req )
{
    SessionBlock *sa_getsessioninfo_1_svc(
        IN DD_getservicestatus_args *arg, IN struct svc_req *req )
    {
        static SessionBlock args;
        static boolean bFirst = TRUE;
        if (First)
            memset(&args, 0, sizeof(args));
        else
            first = FALSE;
    }
}

```

```
arqzz.sess = NULL;
```

```
GetDispatchInfo(arg, &argzz);
```

```
return argzz;
```

```
/*
*****ROUTINE*****
** Routine: FreeSessionInfo
** Inputs: SessionInfo * - arg to free
** Outputs: None
** Return Codes: None
```

```
/* Purpose: Function to free all SessionInfo structures in a list.
```

```
** Intended caller: Internal Only.
```

```
static void FreeSessionInfo(SessionInfo *sess)
{
    if (sess == NULL)
        return;

    if (sess->next != NULL)
        FreeSessionInfo(sess->next);

    free(sess);
}
```



```
void
initializeSession(IN DD_initialize_args *arg, IN struct svc_req *req,
                  OUT DD_initialize_result *res) {
    /**
     * Purpose: Initialize a session for the GUI.
     */
    *****
}
```

```
EDMSession *session;
EDMSession *rret;
privated_t id;
time_t t;
```

```
if (arg == NULL || req == NULL || res == NULL)
{
    return;
}
```

```
t = time(NULL);
session = new EDMSession();
if (session == NULL)
{
    res->status = DD_SERVICE_FAILURE_NONEEXEC;
    return;
}
```

```
session->initSession();
if (session->setStartTime(t))
{
    session->setOperationType(arg->service);
    session->setStatus(DD_SERVICE_STARTING);
    session->startService();
    if (arg->username != NULL && arg->hostname != NULL)
    {
        // code is commented out because we do not
        // want to read the config for permission information
        // at this time, it is a waste of cycles
    }
    #if 0
    case DD_SERVICE_RESTORE : boolean_t RESTORE;
    allowed = DispatchCheckRestorePermission(
        arg->hostname, arg->username);
    if (allowed)
    {
        res->status = DD_SERVICE_FAILURE_PERMS;
        delete session;
        return;
    }
    break;
}
default: // Add some error message for unknown service
break;
}
else
{
    if (res->getstatus() != DD_SERVICE_RUNNING)
        continue;
}
```

```
res->status = DD_SERVICE_FAILURE_NONEEXEC;
delete session;
return;
}
```

```
LockSessionMutex();
ret = (EDMSession *) G_sessiontree.insert((INoCollectable *) session);
UnlockSessionMutex();
if (ret == NULL)
{
    res->status = DD_SERVICE_FAILURE_NONEEXEC;
    delete session;
    return;
}
```

```
session->getSessionID(res->service.handle);
// Call Steve's thread
pthread_create(id, NULL, kDSSrvc_init, (void *) session);
session->setThreadID(id);
return;
}
```

```
session->setThreadID(id);
session->sendPingMessagesToSession
    (** Inputs: None
     ** Outputs: None
     ** Return Codes: None
     ** Purpose: Queue up all the Ping messages to the sessions. If they don't
     ** respond they should be considered dead.
     */
    *****
}
```

```
EDMSession *sess;
LockSessionMutex();
RaninaryTreeIterator *sessionIterator = new RaninaryTreeIterator(G_sessiontree);
while (sessionIterator != NULL && (sessionIterator->session != NULL))
{
    sess = (EDMSession *) (sessionIterator->session);
    if (sess->getstatus() != DD_SERVICE_RUNNING)
        continue;
    if (sess->getstatus() != DD_SERVICE_RUNNING)
        continue;
}
```

```
EDMSession *session;
privated_t id;
time_t t;
```

```
if (arg == NULL || req == NULL || res == NULL)
{
    return;
}
```

```
t = time(NULL);
session = new EDMSession();
if (session == NULL)
{
    res->status = DD_SERVICE_FAILURE_NONEEXEC;
    return;
}
```

```
session->initSession();
if (session->setStartTime(t))
{
    session->setOperationType(arg->service);
    session->setStatus(DD_SERVICE_STARTING);
    session->startService();
    if (arg->username != NULL && arg->hostname != NULL)
    {
        // code is commented out because we do not
        // want to read the config for permission information
        // at this time, it is a waste of cycles
    }
    #if 0
    case DD_SERVICE_RESTORE : boolean_t RESTORE;
    allowed = DispatchCheckRestorePermission(
        arg->hostname, arg->username);
    if (allowed)
    {
        res->status = DD_SERVICE_FAILURE_PERMS;
        delete session;
        return;
    }
    break;
}
default: // Add some error message for unknown service
break;
}
else
{
    if (res->getstatus() != DD_SERVICE_RUNNING)
        continue;
}
```

```
res->status = DD_SERVICE_FAILURE_NONEEXEC;
delete session;
return;
}
```

```
EDMSession *session;
privated_t id;
time_t t;
```

```
if (arg == NULL || req == NULL || res == NULL)
{
    return;
}
```

```
t = time(NULL);
session = new EDMSession();
if (session == NULL)
{
    res->status = DD_SERVICE_FAILURE_NONEEXEC;
    return;
}
```

```
session->initSession();
if (session->setStartTime(t))
{
    session->setOperationType(arg->service);
    session->setStatus(DD_SERVICE_STARTING);
    session->startService();
    if (arg->username != NULL && arg->hostname != NULL)
    {
        // code is commented out because we do not
        // want to read the config for permission information
        // at this time, it is a waste of cycles
    }
    #if 0
    case DD_SERVICE_RESTORE : boolean_t RESTORE;
    allowed = DispatchCheckRestorePermission(
        arg->hostname, arg->username);
    if (allowed)
    {
        res->status = DD_SERVICE_FAILURE_PERMS;
        delete session;
        return;
    }
    break;
}
default: // Add some error message for unknown service
break;
}
else
{
    if (res->getstatus() != DD_SERVICE_RUNNING)
        continue;
}
```

```
res->status = DD_SERVICE_FAILURE_NONEEXEC;
delete session;
return;
}
```



```

*****+
*** Routine: CheckDDispatchSessions
*** Inputs: None
*** Outputs: None
*** Return Codes: None
*****+
void
CheckDDispatchSessions()
{
    /* Purpose: Look for dead sessions and kill them off
    ****
    if (ret != 0)
        return;
    /* */
    EMDispatch_logent( _FILE_, _LINE_, LOG_ERR, 0, 0,
        "Removing session %d & %d",
        sessID_high, sessID_low);
    continue;
}
else
{
    EMDispatch_logent( _FILE_, _LINE_, LOG_INFO, 0,
        "Session %d received any message - > getLastReceived(),
        sessID_high, sessID_low; currtime - maxDisconnectTime");
}

ret = deleteHandleSet(&sessID, &linkHandle, &status);
if (ret != 0)
    EMDispatch_logent( _FILE_, _LINE_, LOG_ERR, 0, 0,
        "Failure to remove session %d", sessID);
EMDispatch_logent( _FILE_, _LINE_, LOG_ERR, 0, 0,
    "Failure to remove session %d", sessID);

// through with iterator
if (sessionIterator == NULL)
    delete sessionIterator;
reapTree.clear();
reapTree.insert(sessID);
}

// Insert it into the reaper tree
reapTree.insert(sessID);

// through with iterator
if (sessionIterator == NULL)
{
    delete sessionIterator;
}

unlockSessionMutex();
}

// If the reaper tree has something in it then use those entries to remove
// things from the query tree.
if (reaptree.entries() > 0)
{
    /* */
    void
DrainSessionDescriptors()
{
    /* */
    /* Purpose: Drain whatever data is on stdout and stderr for sessions.
    ** */
    /* Inputs: None
    ** */
    /* Outputs: None
    ** */
    /* Return Codes: None
    ** */
}

```

```

1, 0
)
fd.set_stdinSet();
fd.set_stdoutSet();
getStderrSet(&stderrSet, &hout, &status);
if (selret = select(hout + 1, &stdoutSet, NULL, NULL, &timetowait)) >= 0
{
    for (i < hout+1; i++)
    {
        if (FD_ISSET(i, &stdoutSet))
            while (read(i, buff, 1024) > 0)
                if ( (selret = select(herr + 1, &stderrSet, NULL, NULL, &timetowait)) >= 0)
                    for (i = 0; i < herr+1; i++)
                        if (FD_ISSET(i, &stderrSet))
                            while (read(i, buff, 1024) > 0);
    }
}
}

*****+
** Routine: GetSessionStatus
** Inputs: DD::client::session_id *ssid - session ID to check the status of
**          int *_status - status of the function call
** Output:   int *_status - session status
** Return Codes: 0 if successful and non-zero otherwise
** Purpose: Get status on the session.
*****+
EMDSession *sess;
EMDSession *ret;
int _status;
GetSessionStatus(DD::client::session_id *ssid, int *_status, int *status)
{
    if (status == NULL)
        return -1;
    if ( (ssid == NULL) || (*status == NULL))
        *status = SESSION_BAD_ARGS;
    return -1;
}

*****+
void
GetDispatchStatus(IN DD::getservicestatus_args *arg,
                  OUT DD::getservicestatus_result *res)
{
    EMDSession *sess;
    EMDSession *ret;
    static char buff[CONNECT_HANDLE_SIZE];
    sess = new EMDSession();
}

```

```

        ) // Give an error

        if (sess == NULL)
            LockSessionMutex();
        else
            ret = (EDMSession *) G_sessionTree.find((RWCollectable *) sess);
            unlockSessionMutex();
            delete sess;
    }

    if (ret == NULL)
        EMDISPATCH_LOGENT(
            _FILE_, _LINE_, LOG_ERR, SESSION_LOOKUP_FAILED, 0,
            _"Failure to lookup session %ld.%ld",
            arg->service_handle_high, arg->service_handle_low);
    return;
}

res->status = DD_SERVICE_FAILURE_NONEXC;
res->status = ret->getstatus();
memmove(buff, 0, sizeof(buff));
if (res->status == DD_SERVICE_RUNNING)
    res->handle.handle_val = (char *) ret->getConnectionHandle();
res->handle.handle_len = CONNECT_HANDLE_SIZE;
else
{
    res->handle.handle_val = (char *) buff;
    res->handle.handle_len = CONNECT_HANDLE_SIZE;
}
***** GetDlpatchInfo *****
outline: GetDlpatchInfo

inputs: DD_getservicestatus_args *arg - session ID to check the status of
outputs: SessionBlock *res - the information regarding the specified session
return Codes:
    None
purpose: Get status on all the sessions.

```

```

if (res > sess == NULL)
{
    EDMDispatch_logent(
        _FILE_, _LINE_, LOG_ERR, SESSION_NO_MEMORY, 0,
        "Failure to allocate session into block!");
    UnlockSessionMutex();
    return;
}

sinfo = res > sess;

while (sessionIterator != NULL && (ret = (EDMSession*) (*sessionIterator)) != NULL)
{
    int
        status;
    if (*address)
        sinfo->next = (SessionInfo *) calloc(1, sizeof(SessionInfo));
    if (sinfo->next == NULL)
        break;
}

sinfo = sinfo->next;

ret->getSessionID(&sinfo->serviceHandle);
sinfo->status = ret->get_Status();
sinfo->StartTime = ret->get_StartTime();
sinfo->OperationType = ret->get_OperationType();
sinfo->LastSent = ret->get_LastSent();
sinfo->LastReceived = ret->get_CastReceived();

getHandleSet(&sinfo->serviceHandle, &sinfo->outHandle,
             &res);
res->totalSessions++;

sinfo->next = NULL;
address = TRUE;
}

// through with iterator
if (sessionIterator != NULL)
{
    delete sessionIterator;
}

UnlockSessionMutex();
}

EDMSession removeSession(SESSION_ID sess_id)
{
    EDMDispatch_logent(
        _FILE_, _LINE_, LOG_ERR, SESSION_LOOKUP_FAILED, 0,
        "Failure to remove session %d.%d",
        sess_id->high, sess_id->low);
    delete sess;
}

```

```
* status = SESSION_LOOKUP_FAILED;  
)  
    return -1;  
    delete ret;  
    delete sess;  
}  
return 0;
```


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En.

```
    if ( !status ) {  
        status = set_status( ID_SERVICE_FAILURE_NOMEXEC );  
        unlock_semaphore();  
        pthead_exit( NULL );  
    }  
}
```

```
void free(pClient_h);
EDMDispatch_Logent(FILE _LINE, LOG_ERR, DDP_WRITE_CHANNEL,
0, "edmrst_WrChannel() Failure");
return(-1);
```

```

// Insert handle object into Global exec.
lrc = newHandleSet( &id,
                    &fd,
                    &bh,
                    &shellHandle,
                    &status );
}

// Let's clean up and set the status to RUNNING.
p_so->setStatus(DD_SERVICE_RUNNING);
unlockService();
pThreadExit( NULL );
return NULL;
}

/* ===== */
/* Function: edurst_send_chndl_to_private_svc()
 * Description: 
 * Returns: 
 *          0 Successful
 *          -1 Read Failure
 *          <0 Read less than expected
 * ===== */
int edurst_send_chndl_to_private_svc(int pipeToSvc, *pSessionObj)
{
    // Write the handle to the service so it can contact me
    // pSessionObj -> getSessionID(kuid);
    pSessionObj = edurst_wtChannel(pipeToSvc,
                                   (void*)kuid,
                                   (void*)id,
                                   session_id);
    if ( (sizeof(DD_CLIENT_SESSION_ID) != lrc )
        || (lrc < 0) )
        return(-1);

    // Write the handle to the service so it can contact me
    // pipeToSvc -> write(0, lrc, 1);
    if ( (sizeof(DD_CLIENT_SESSION_ID) != lrc )
        || (lrc < 0) )
        return(-1);

    // Read the response from the service
    if ( (sizeof(DD_CLIENT_SESSION_ID) != lrc )
        || (lrc < 0) )
        return(-1);

    // Check if the response is what we expect
    if ( (sizeof(DD_CLIENT_SESSION_ID) != lrc )
        || (lrc < 0) )
        return(-1);

    // If the response is what we expect, then we're good
    if ( (sizeof(DD_CLIENT_SESSION_ID) == lrc )
        && (lrc > 0) )
        return(0);
    else
        return(-1);
}

/* ===== */
/* Function: edurst_send_chndl_to_private_svc(int pipeToSvc)
 * Description: 
 * Returns: 
 *          0 Successful
 *          -1 Read Failure
 *          <0 Read less than expected
 * ===== */
int edurst_send_chndl_to_private_svc(int pipeToSvc)
{
    // Isolate the connection handle from the server 'if spec'.
    // The IP/IFC are part of the created IF_spec structure.
    p_client_h = dispatchIfcmon_ifspec.connect_handle_p;

    // Write the handle to the service so it can contact me
    // write the handle to the service so it can contact me
    // restore service=NULL;
    lrc = edurst_wtChannel(pipeToSvc,
                          &client_h,
                          NULL);
}

```



```
    }

    void) memcpy( (char*) &dispatchdaemon_ifspec.ip_addr,
                  hp->p_addr, hp->h_length );

    // Register the callback functions.
    // Register the callback functions.
    lrc = scs_register_async_server_interface(
        &D:\dispatchdaemon_ifspec,
        -1,
        edn_dispatch_protocol_service_ltable,
        edn_dispatch_protocol_service_lproc,
        &scs_status );
}

if ( TRUE != lrc )
{
    EDMDDispatch_Logent( _FILE_, _LINE_, LOG_ERR, DDP_REGISTER_SVC_FAILURE,
                         "Failed to register asynchronous server interface.");
    return -1;
}

return 0;
}
```